Name: _____ Group: _____ Date: _____

# Aurora borealis

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**1.** Match each term with its definition.

| Term | Definition |
|---|---|
| a) Aurora<br>b) Magnetosphere<br>c) Solar wind | 1. Stream of matter emitted by the Sun.<br>2. Magnetic shield surrounding Earth.<br>3. Luminous phenomenon caused by particles colliding in the atmosphere. |

**2.** Complete the text below, which explains the formation of an aurora. Use the words listed in the box.

| | | | |
|---|---|---|---|
| interactions | solar wind | Sun | magnetosphere |
| poles | lights | particles | |

An aurora occurs when the _____ is very active. The _____, which usually stores particles of _____, lets some of these particles escape near the _____. The _____ come in contact with other particles from the atmosphere. The _____ between the various particles create a luminous phenomenon characterized by coloured _____ in the night sky.

**3.** What is the difference between an aurora borealis and an aurora australis?

_____

_____

_____

**4.** True or false?

**a)** It is possible to observe an aurora australis in Canada. _____

**b)** The solar wind is invisible to the naked eye. _____

**c)** An aurora can take on different colours, such as red and violet. _____

**d)** An aurora can take on different colours at the same time. _____

**e)** An aurora borealis can occur only in winter. _____